1/18

FIG. 1

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2
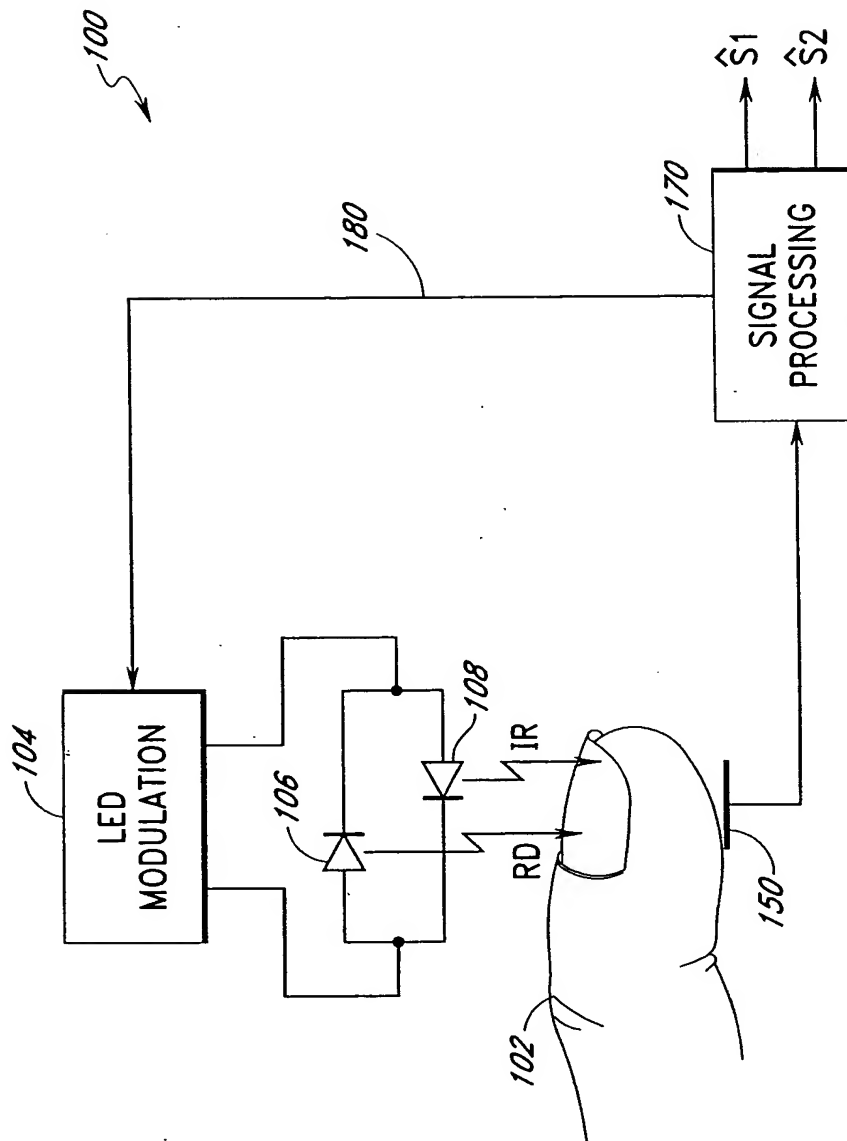
2/18

FIG.2

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

3/18

FIG.3

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
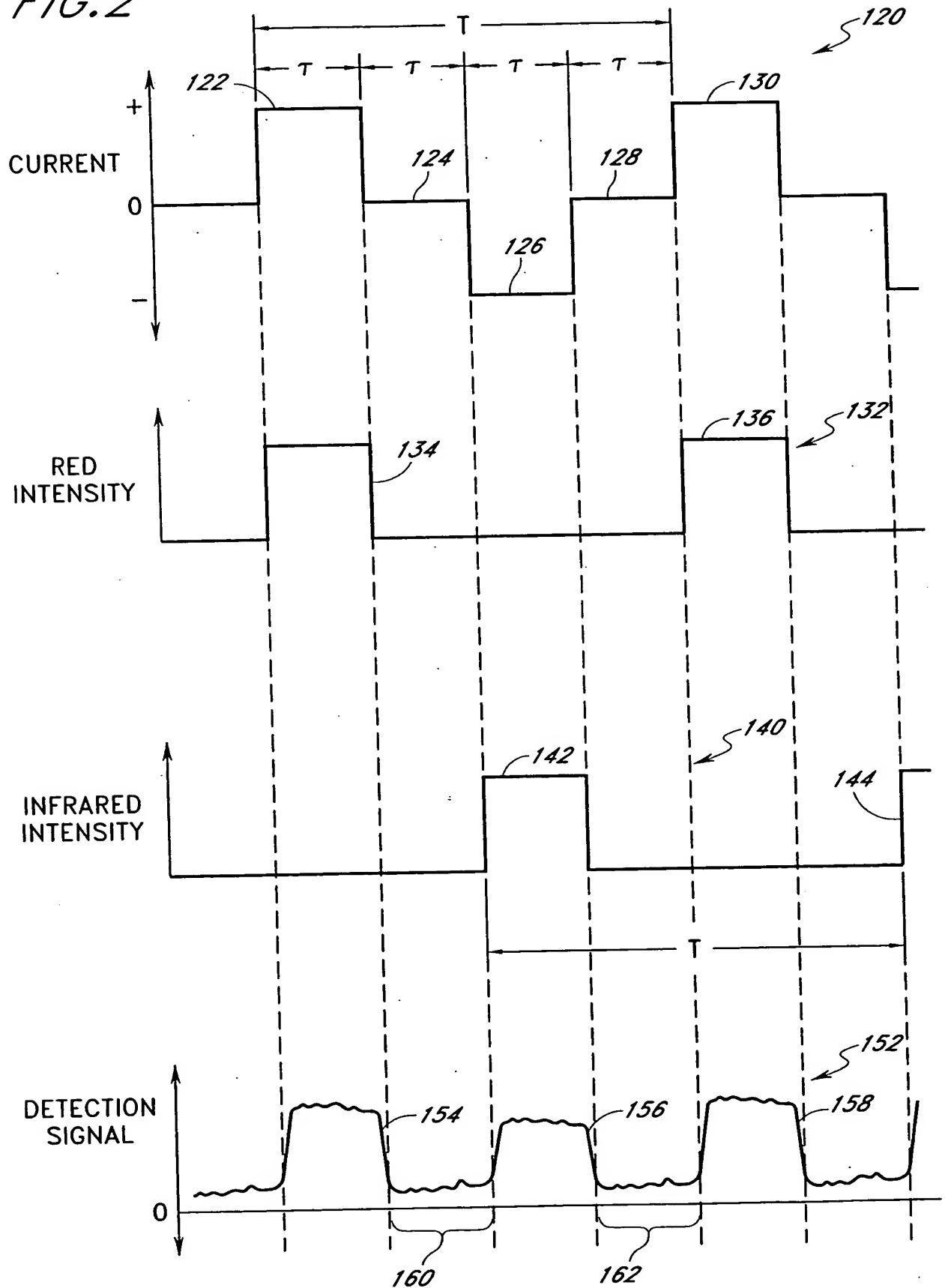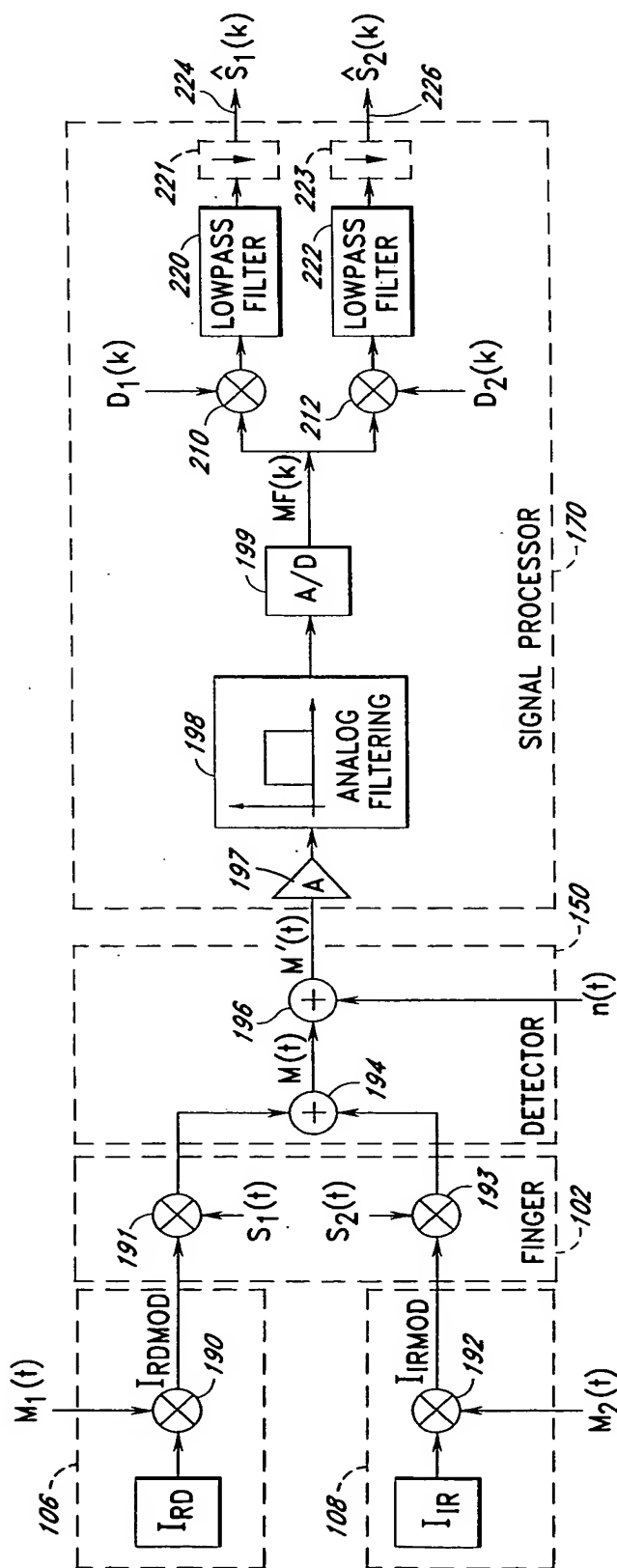Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

4/18

FIG. 4

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

5/18

FIG.5

FIG.6

FIG. 7

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

7/18

FIG.8

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
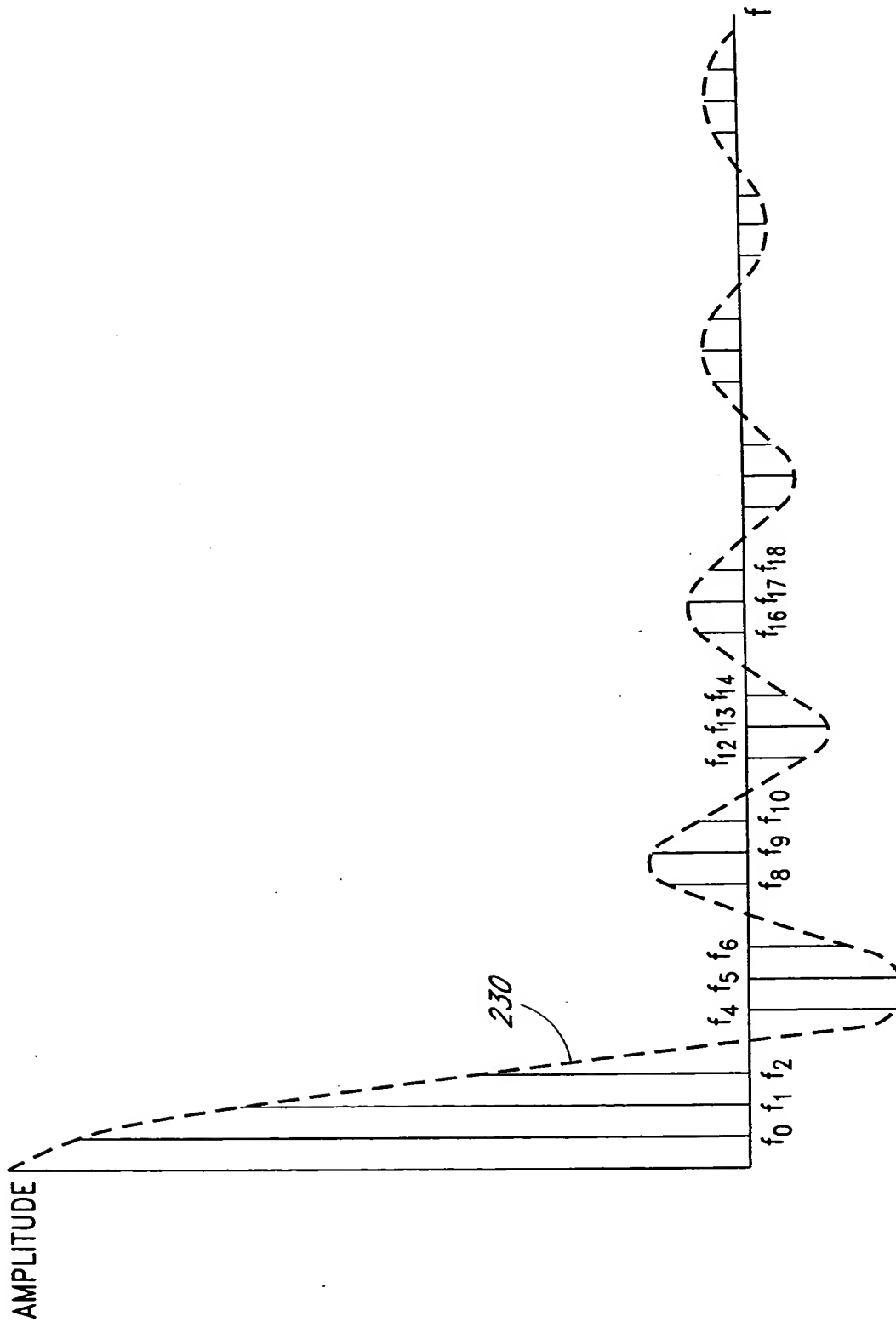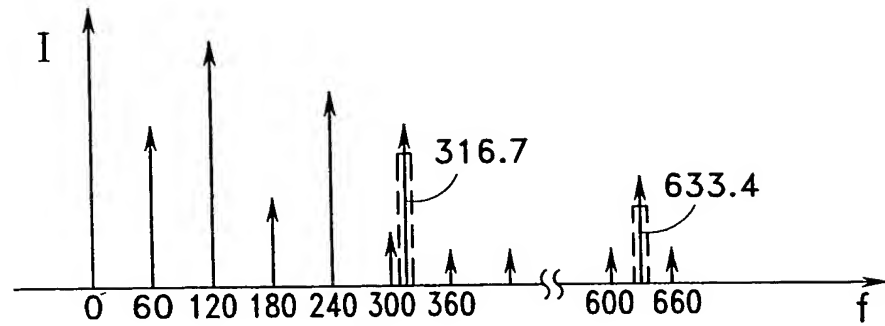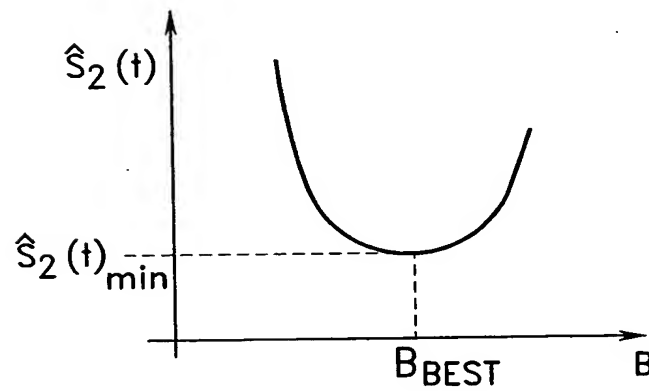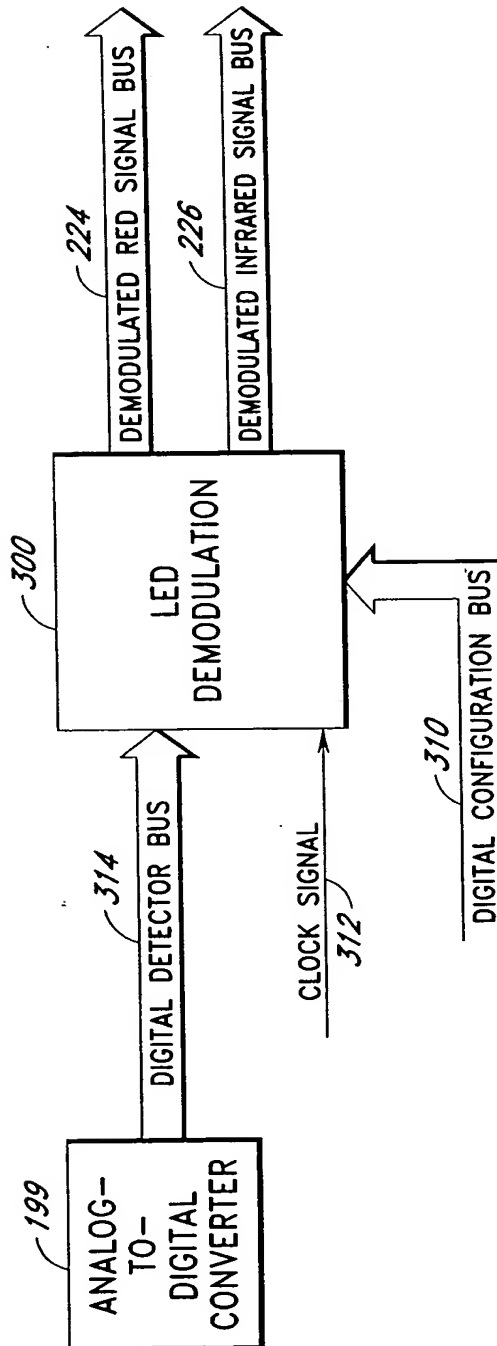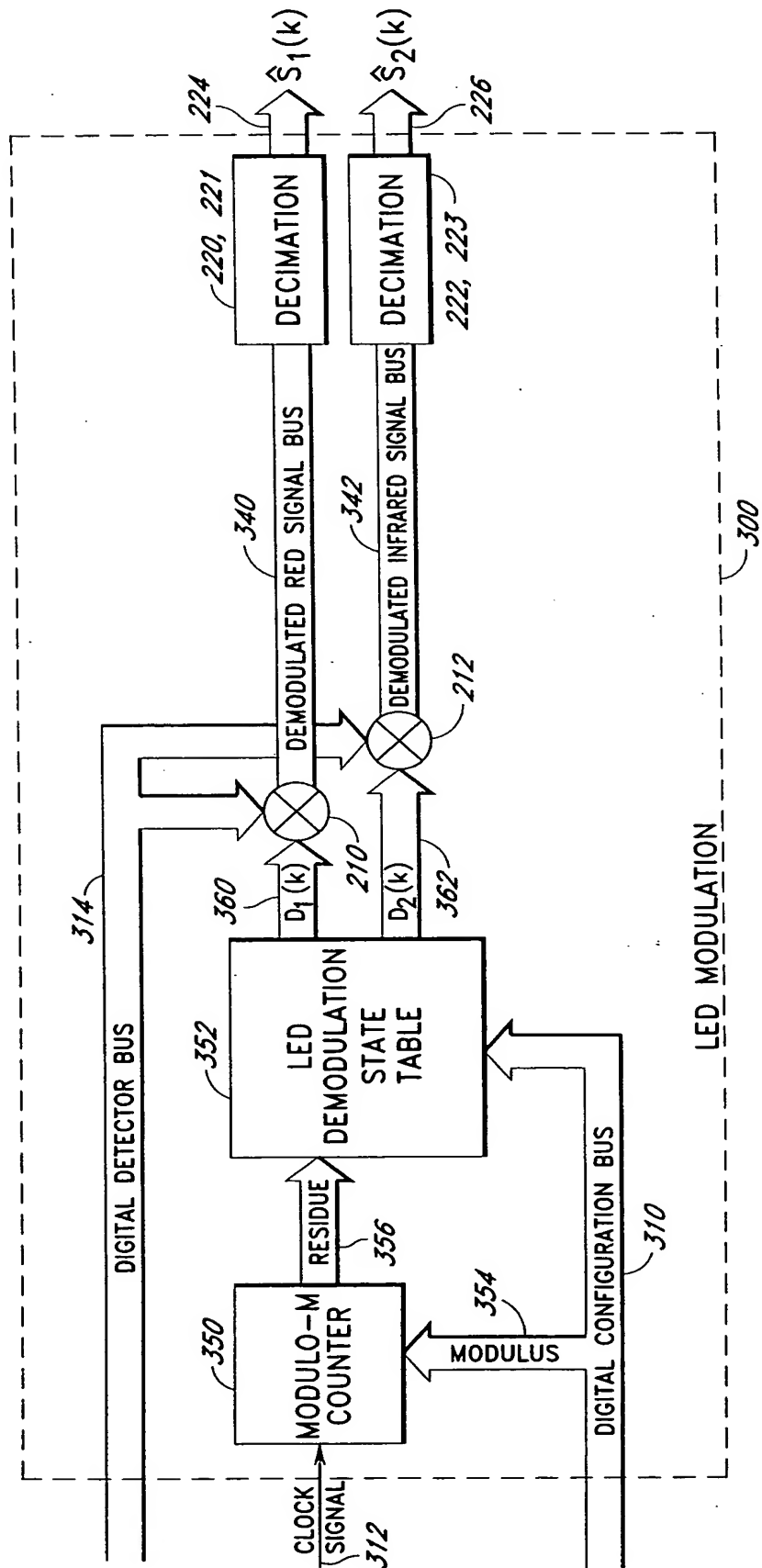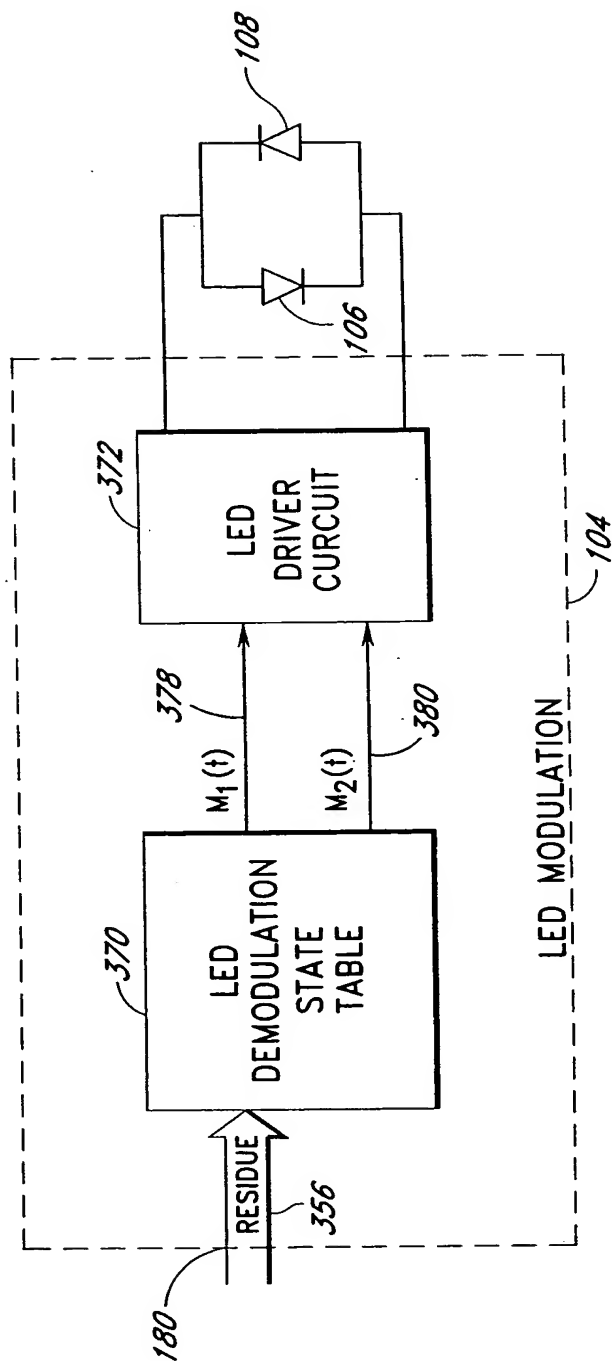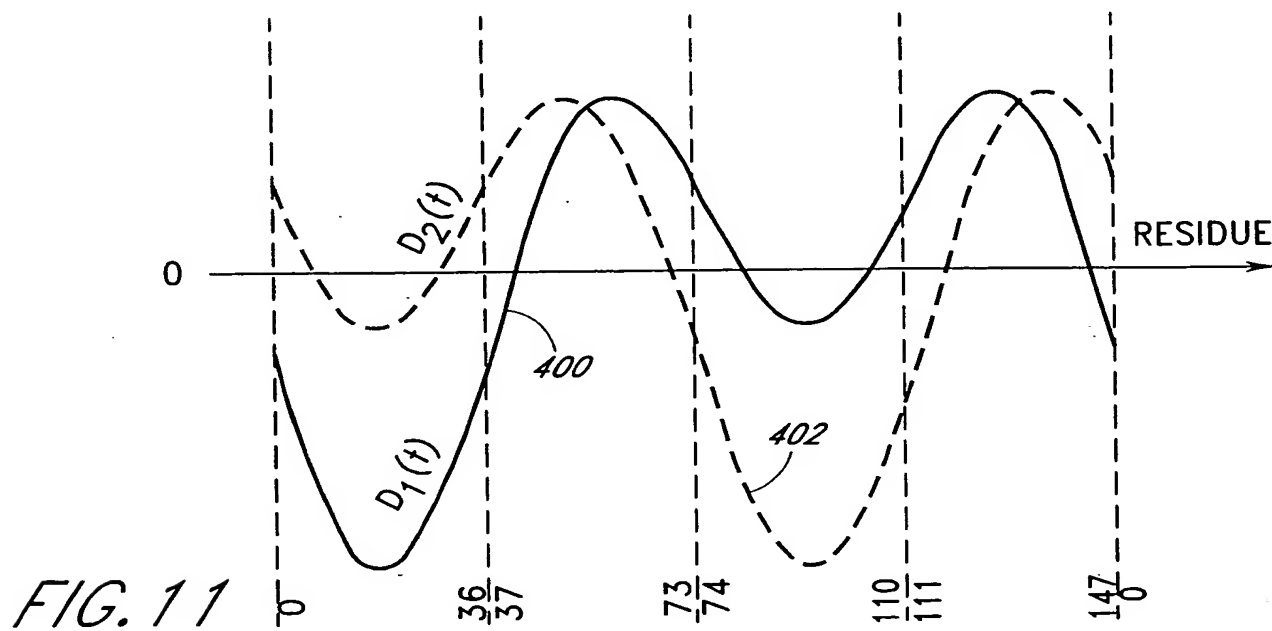Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

8/18

FIG.9

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

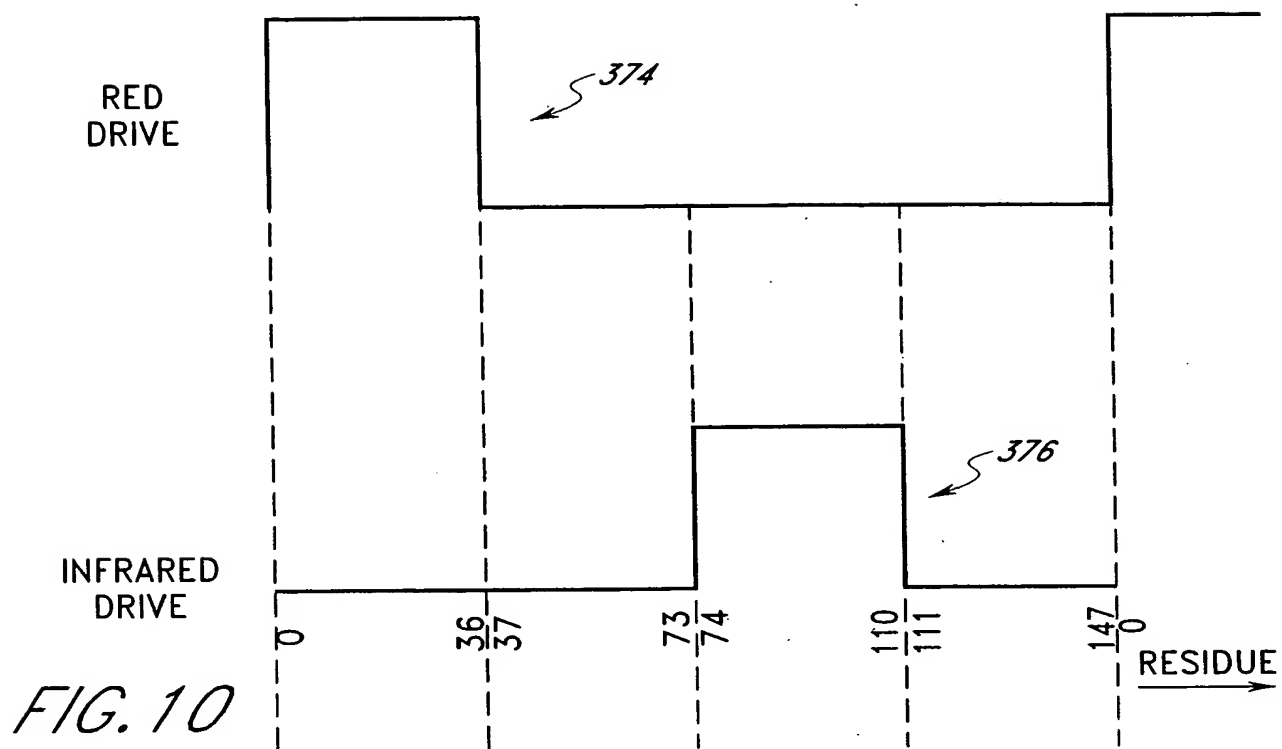9/18

RED
DRIVE

374

INFRARED
DRIVE

376

$\frac{36}{37}$ $\frac{73}{74}$ $\frac{110}{111}$ $\frac{147}{0}$

RESIDUE

FIG. 10

$D_2(t)$

0

RESIDUE

400

$D_1(t)$

402

$\frac{36}{37}$ $\frac{73}{74}$ $\frac{110}{111}$ $\frac{147}{0}$

FIG. 11

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
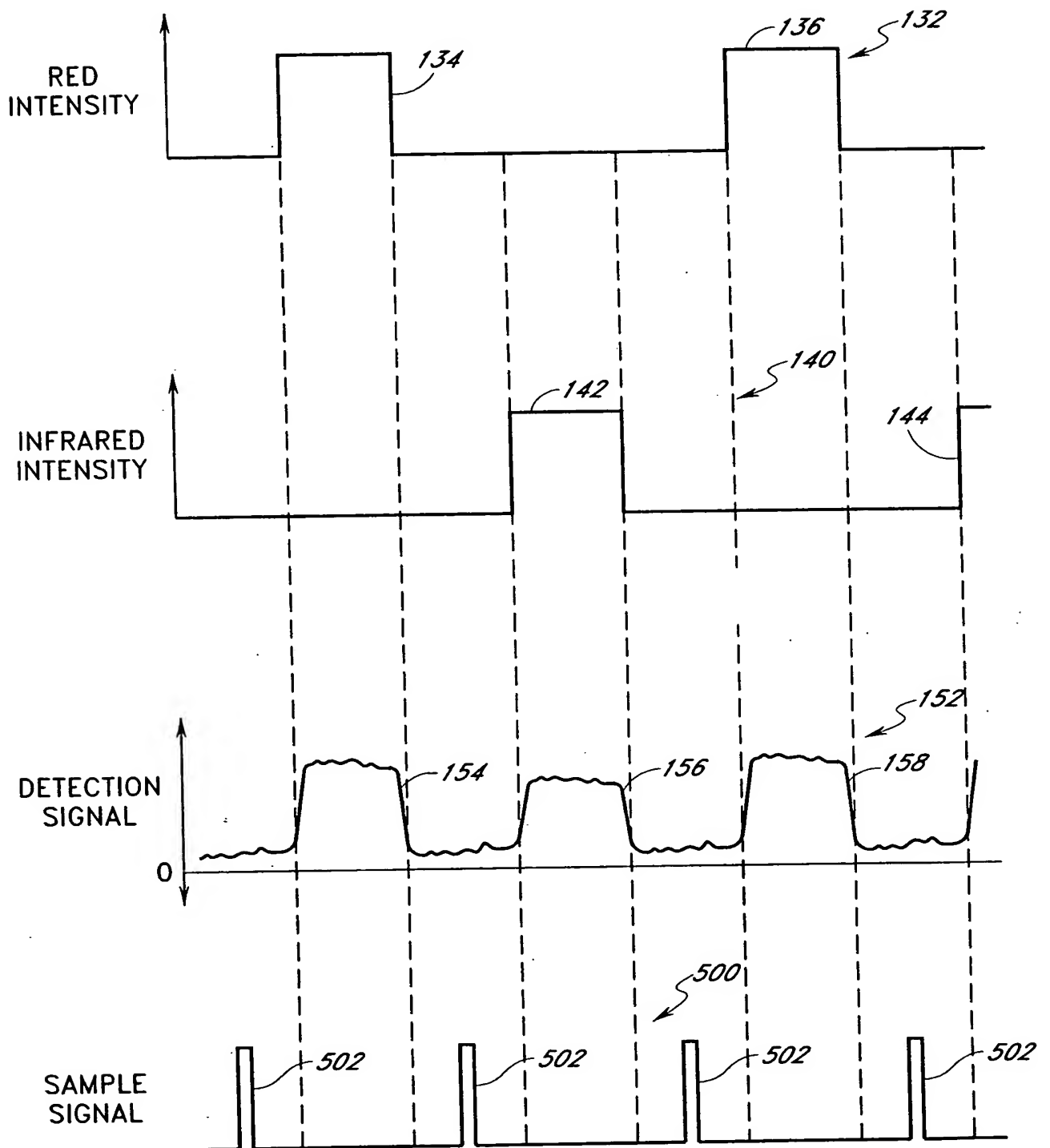*Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2*

10/18

FIG. 12

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

11/18

FIG. 13

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
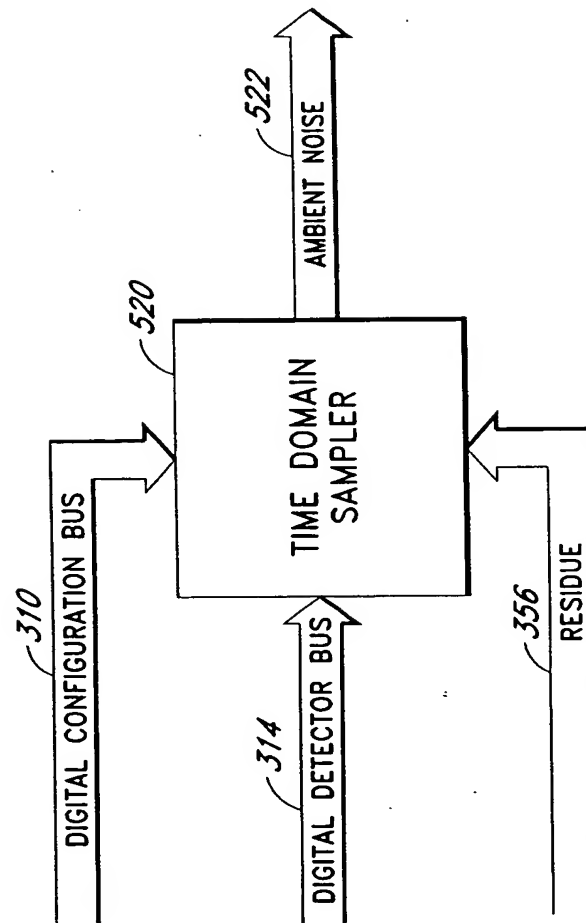*Diab et al.*
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2
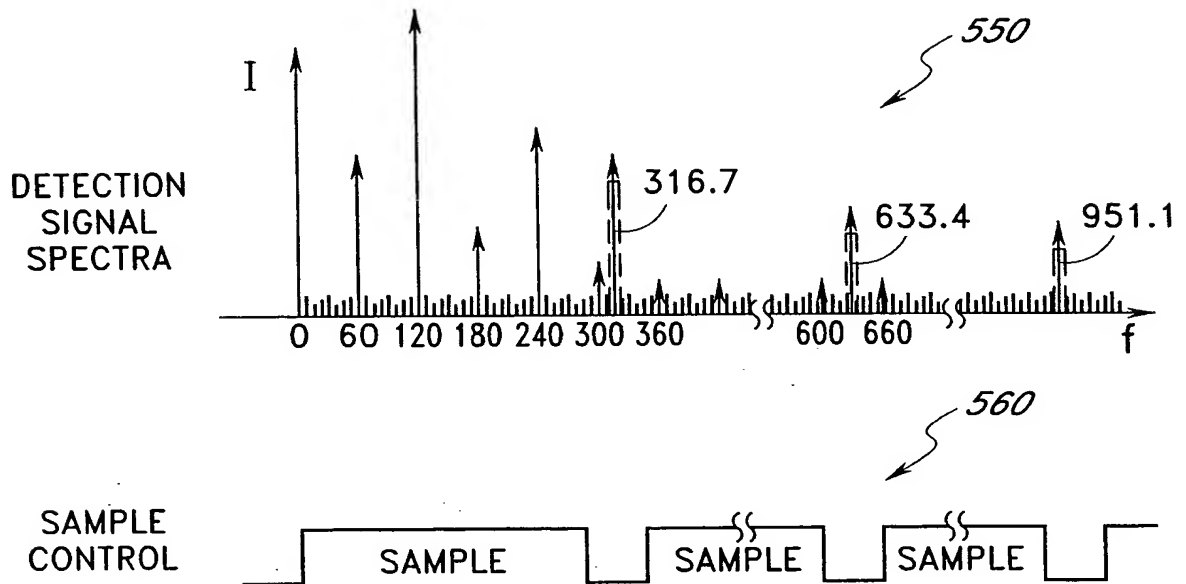
12/18

FIG. 14

13/18

FIG. 15

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

14/18

FIG. 16

15/18

FIG. 17

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2
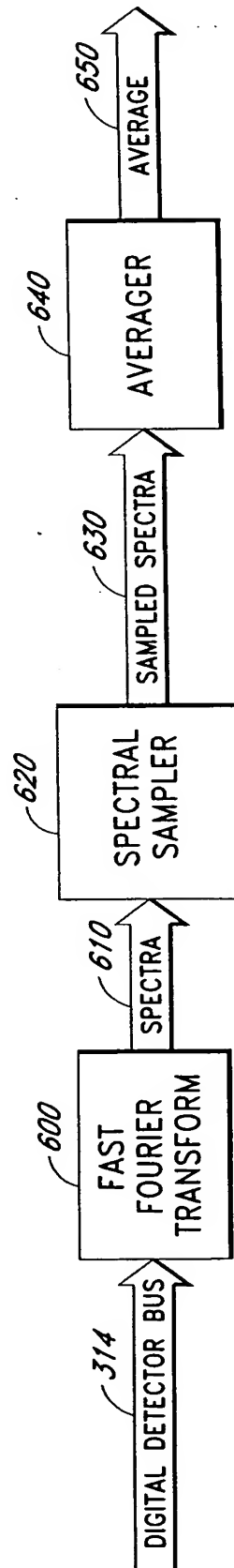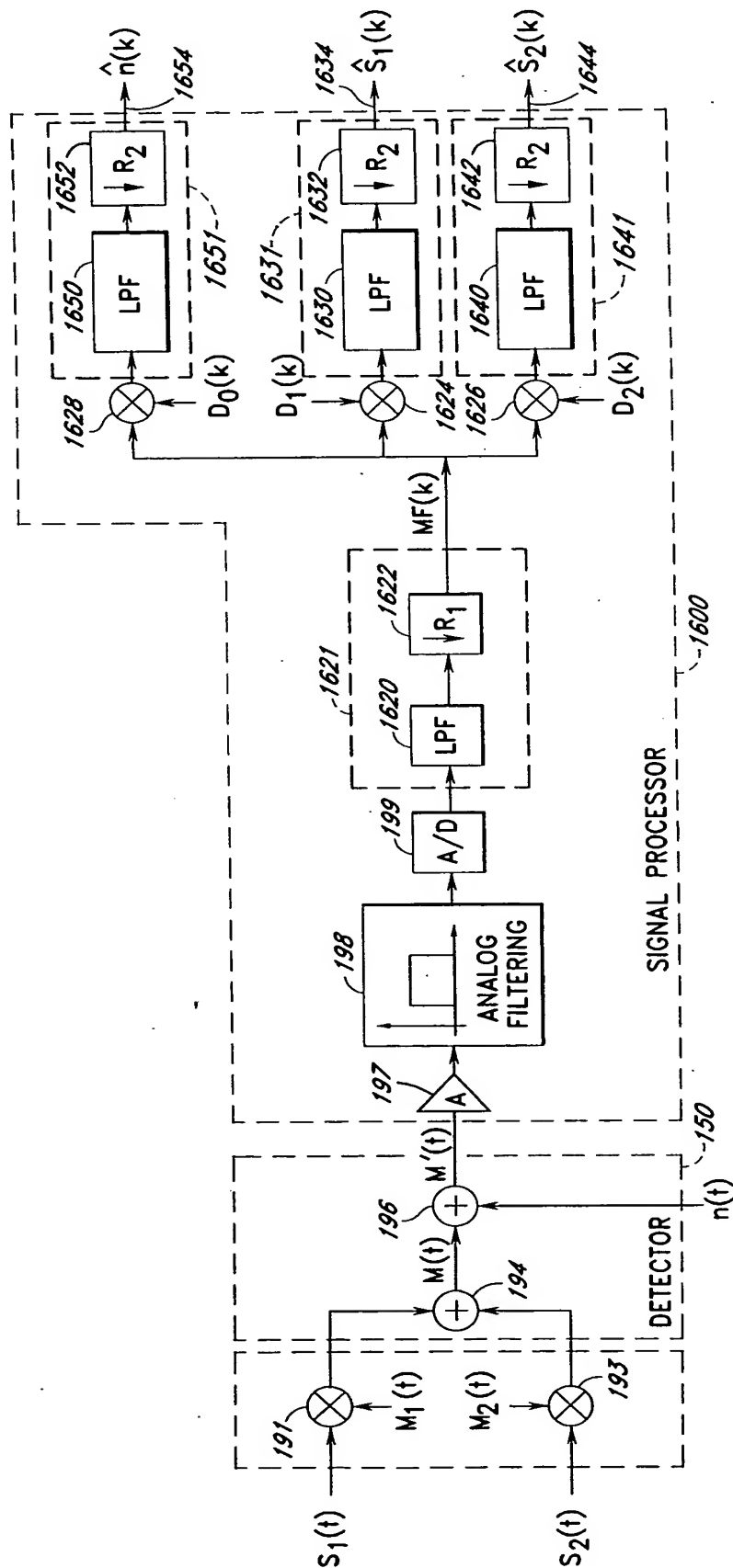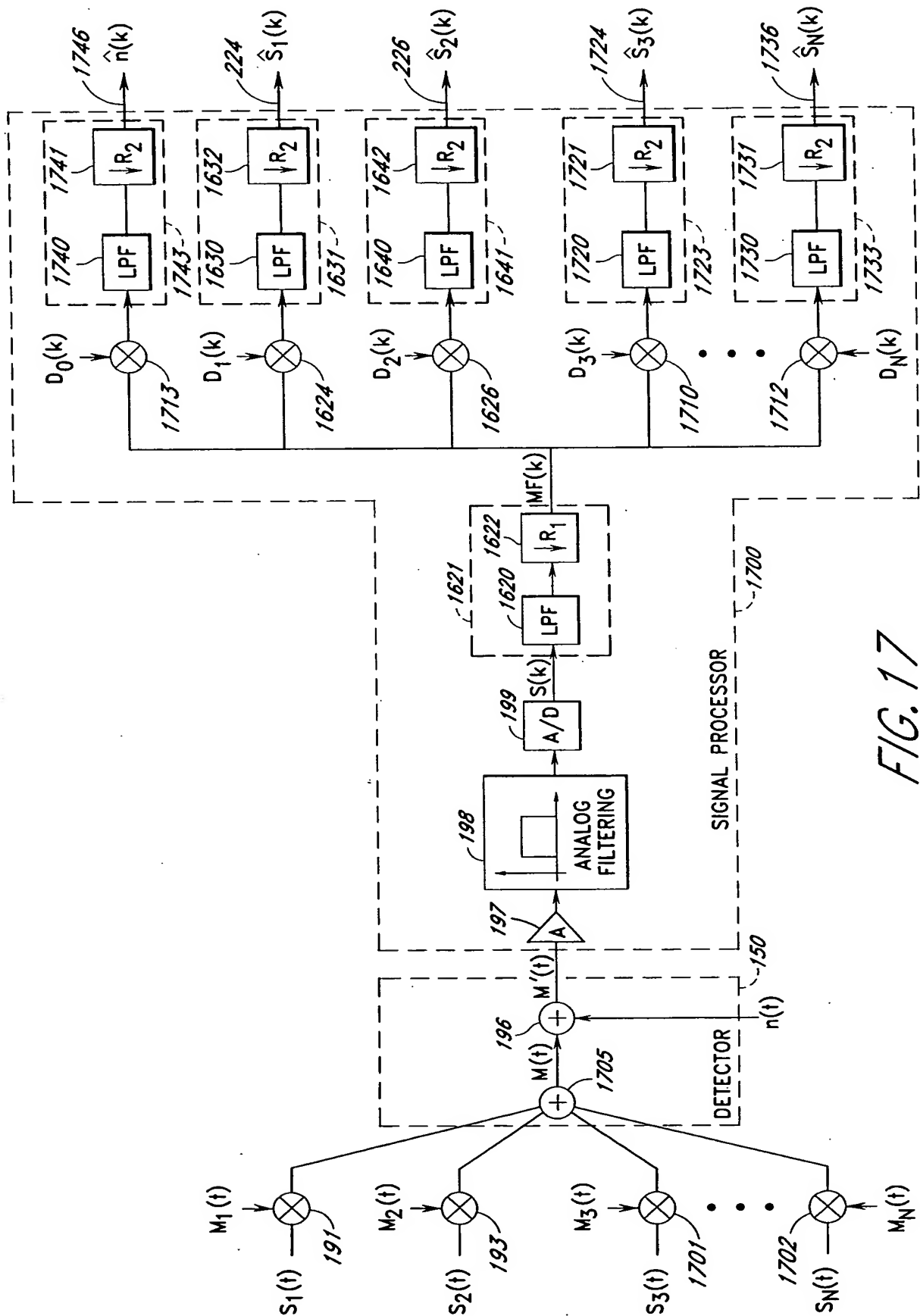
16/18

FIG.18

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2

17/18

START

$\underset{1902}{}$

DEFINE AMBIENT LIGHT FREQUENCIES
AND ASSOCIATED HARMONIC COMPONENTS
WHICH CAN DEGRADE SYSTEM PERFORMANCE

$\underset{1904}{}$

CALCULATE A COLLECTION OF
ACCEPTABLE T VALUES

$\underset{1906}{}$

BASED ON COLLECTION OF T VALUES,
CHOOSE A SUITABLE f_s AND Q

END

FIG. 19

METHOD AND APPARATUS FOR DEMODULATING SIGNALS IN A
PULSE OXIMETRY SYSTEM
Diab et al.
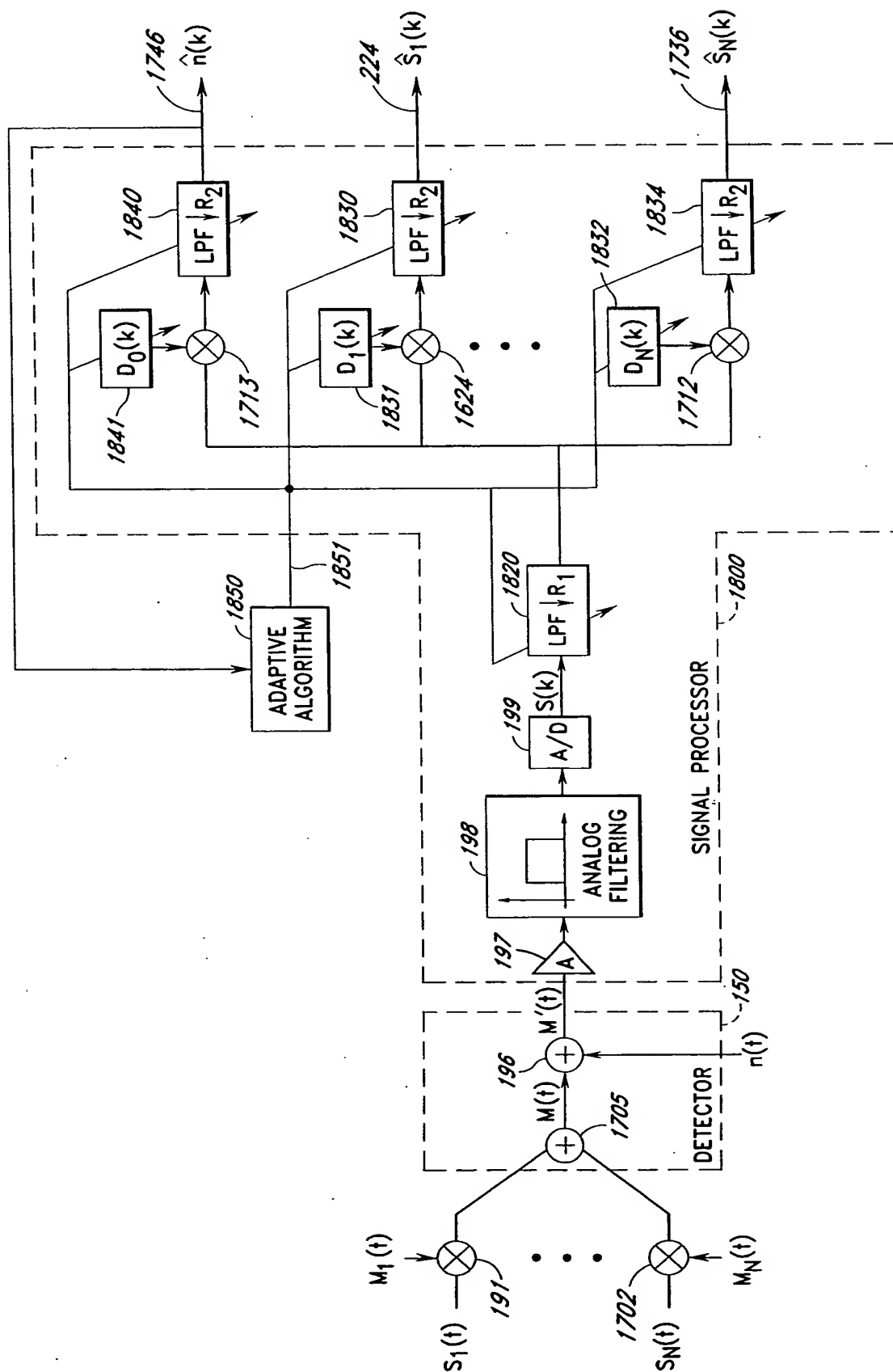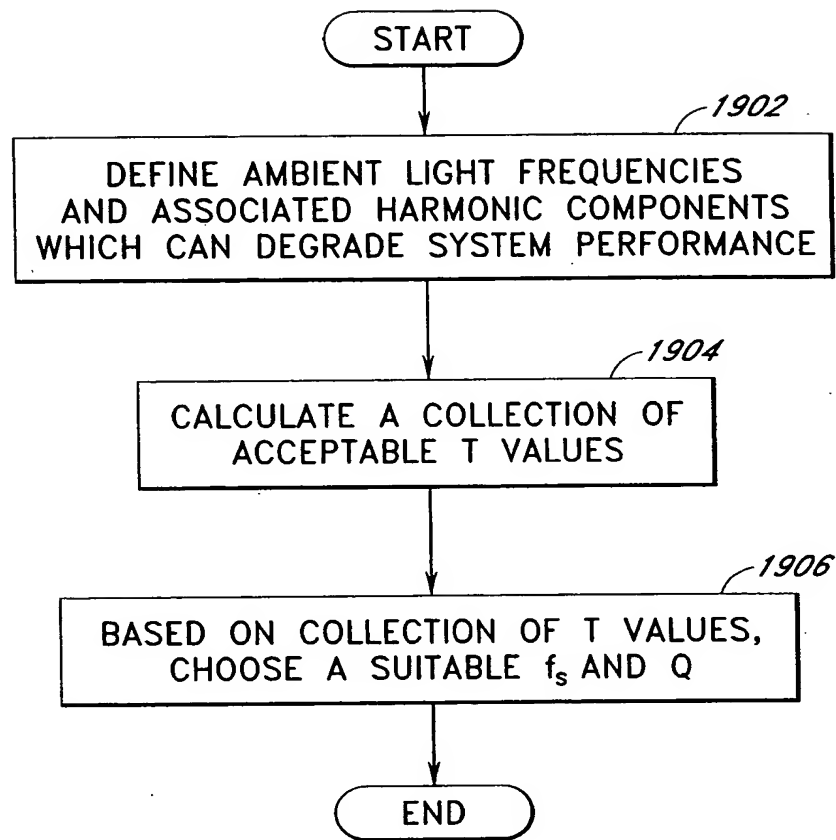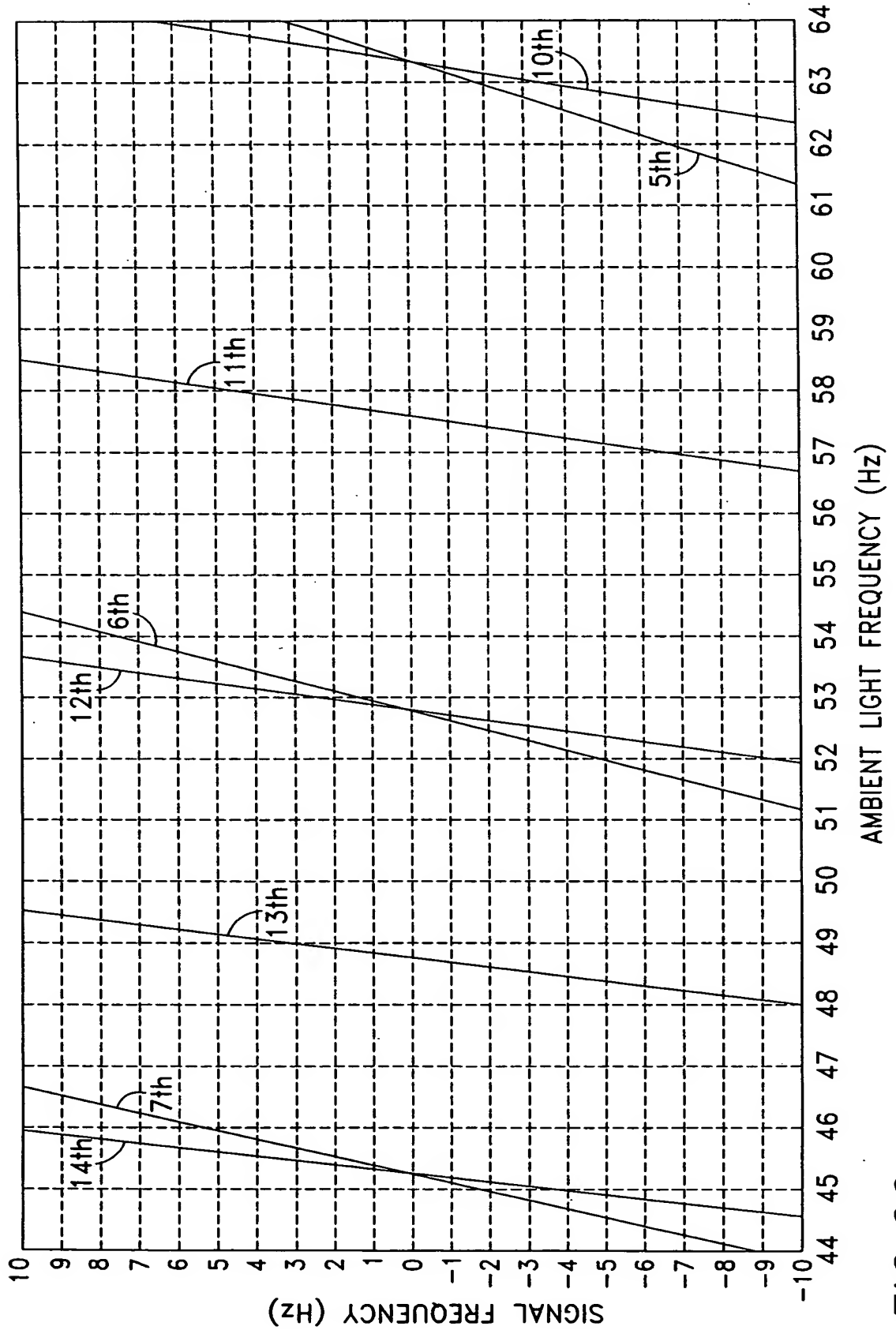*Appl. No.: Unknown   Atty Docket: MASIMO.CP1DV2*

18/18

FIG.20